Updates from the Jody Connor Limnology Center (JCLC)



Regional Cyanobacteria Pilot Project

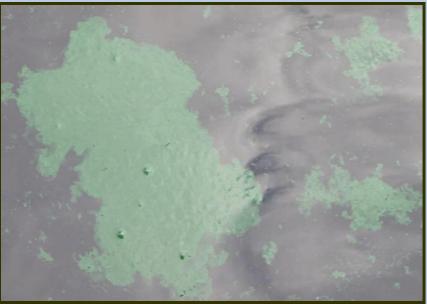
Cyanobacteria produce biotoxins

Toxins stored in cells are released when cell dies

Health effects: Liver and nerve damage

EPA region 1 pilot project

- Uses water collected by volunteers to estimate amount of cyanobacteria present
- Relies on fluorometery to measure pigment (phycocyanin)
- Goal is to establish relative levels of phycocyanin production and relate to bloom observations
- Participation by is voluntary and will require minimal additional work
- No charge for analysis





Lake Trophic Surveys

History and Future

- 1975 2008, 780 Surveys
- Re-initiated 2013
- Watershed based approach
- Target is 8 10 lakes / year
- 3 year commitment
- By 2015 ~30 lakes / year

2013

<u>Lake/Pond</u>	<u>Town</u>
Lake Francis	Clarksville
Third Connecticut Lake	Pittsburg
Oliverian Brook Pond	Benton
Loon Pond	Lincoln
Island Pond	New Ipswich
Mountain Pond	New Ipswich
Lily Pond	Gilford
Sondogardy Pond	Northfield
Walker Pond	Boswcawen
Little Pond	Webster

Timeline for Sampling

- **Year 1** Water chemistry, depth survey, plant survey (August)
- **Year 2** Water chemistry (July)
- **Year 3** Water chemistry (June)

2014

<u>Lake/Pond</u>	<u>Town</u>
Page Pond	Success
Lovell Lake	Wakefield
Salmon Falls River- Waumbek Dam	Rochester
Salmon Falls River- Baxter Mill	Milton
Daniels Lake	Weare
Bailey Pond	New Boston
Cedar Pond	Milan
Lary Pond	Canaan
Dodge Pond	Lempster
Surry Mtn. Reservoir	Surry
Upper Wilson Pond	Swanzey
Lower Wilson Pond	Swanzey

Jody Connor Memorial Fund



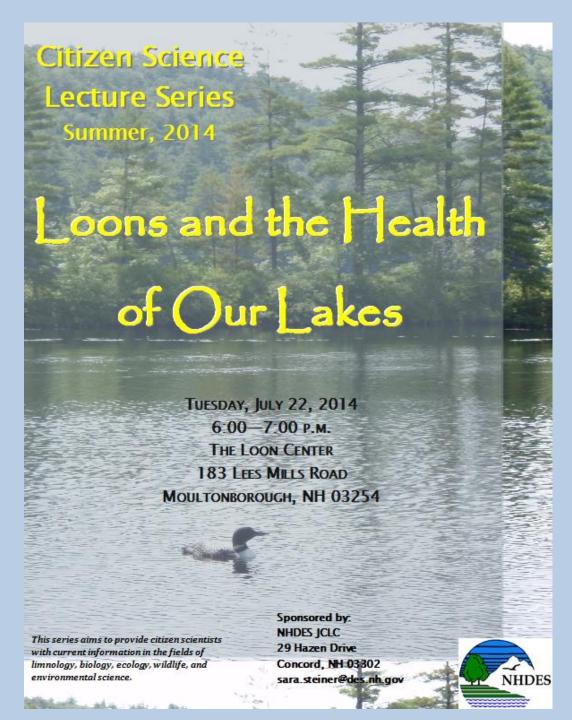
Fund established in 2012 to support volunteer monitoring activities

Winter 2014 grant proposal for up to \$1,000 of equipment were solicited by DES

9 grants totaling \$4,744 are in process of being awarded

Grant Recipients

Lake Sunapee Protective Association
Canobie Lake, Cobbetts Pond, Rock Pond, Windham
Green Mountain Conservation Group, greater Ossipee
Lees Pond, Moultonborough
Millen Lake, Washington
Phillips Pond, Sandown
Pleasant Lake, Deerfield
Rockwood Pond, Fitzwilliam
Winona Lake, New Hampton



Speaker: Harry S. Vogel, Senior Biologist and

Executive Director of the

Loon Preservation

Committee

- Spring, summer, fall, winter
- Various locations of state
- Venue for citizen scientists and interested public to network
- Still working on fall and winter offerings
- Suggestions for topics to Sara Steiner

Invasive Plant Management

